WLX-2002

wallmount
access point N300

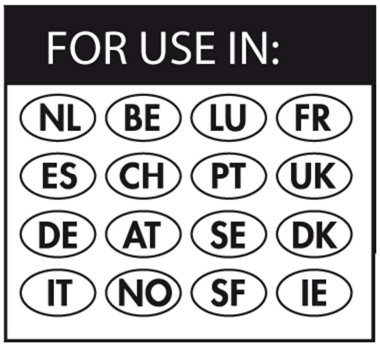
Introduction

Thank you for purchasing the Sitecom WLX-2002 Wi-Fi Access Point N300. It complies with wireless 802.11b/g/n standards and can create a Wi-Fi network with data transmission rates of up to 300Mbps. With the WLX-2002, you can enjoy high-speed wireless networking throughout your home without additional cabling. The WLX-2000 features a WPS button which allows you to connect to the access point with a simple click of a button.

Not only is the WLX-2002 very compact, it is designed with a built-in power adapter. This design allows you to plug it directly into an electrical outlet, eliminating the need for an additional power cable. You can easily install it where your Wi-Fi signal needs enhancement and enjoy high-speed wireless performance without any hassles.

The latest 802.11n technology is built into the WLX-2000 to broaden its wireless coverage and to eliminate dead spots within the wireless range. The WLX-2000 complies with wireless 802.11b/g/n standards and can reach data transmission rates of up to 300Mbps when connected to wireless 802.11n devices. It provides faster and more reliable wireless connections than standard 802.11b/g wireless networks.

This product can be used safely in the countries listed below:



This product complies with the following European Union regulations:

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Sitecom Europe BV

EC Declaration of Conformity

We
Sitecom Europe BV
Linatebaan 101
3045 AH Rotterdam
The Netherlands

Hereby declare under our sole responsibility that the Sitecom product:

Product number: WLX-2002 v1001
Product description: Wi-Fi Access Point N300

To which this declaration relates is in conformity with the requirements of the following standards:

CE/LVD
- EN 60950-1: 2006+A11 (2009)

CE/EMC
- EN 301 489-1 V1.8.1
- EN 301 489-17 V2.1.1

RADIO SPECTRUM
- EN 300 328 V1.7.1 2006-10
- EN 50385 2002

This certifies that the following designated Sitecom product:

Product description: Wi-Fi Access Point N300
Product No.: WLX-2002 v1001

Complies with the requirements of the following directives and carries the CE marking accordingly:
R&TTE Directive 99/5/EC, EMC directive 2004/95/EC and Low Voltage Directive 2006/95/EC.
This declaration is the responsibility of the manufacturer / importer:

Sitecom Europe B.V.
Rotterdam, 5 May 2012

P. Schoonenberg,

CEO

(UK) CE COMPLIANCE

Hereby Sitecom Europe BV declares that this product is in accordance with essential requirements and other relevant terms of the European regulation 1999/5/EC.

(FR) CONFORMITE CE

Par la présente Sitecom Europe BV, déclare que l'appareil est conforme aux exigences essentielles et aux dispositions pertinentes de la Directive Européenne 1999/5/EC.

(DE) CE-KONFORMITÄT

Hiermit erklärt Sitecom Europe BV, dass dieses Produkt die erforderlichen Voraussetzungen und andere relevante Konditionen der europäischen Richtlinie 1999/5/EC erfüllt.

(IT) CONFORMITA ALLE NORME CE

Con la presente Sitecom Europe BV dichiara che questo prodotto è conforme ai requisiti essenziali e agli altri termini rilevanti della Direttiva Europea 1999/5/EC.

(NL) CE GOEDKEURING

Hierbij verklaart Sitecom Europe BV dat dit product in overeenstemming is met de essentiële eisen en andere relevante bepalingen van Europese Richtlijn 1999/5/EC.

(ES) CONFORMIDAD CON LA CE

Por la presente Sitecom Europe BV declara que este producto cumple con los requisitos esenciales y las otras provisiones relevantes de la Directiva Europea 1999/5/EC.

(PT) CONFORMIDADE CE

Pela presente a Sitecom Europe BV declara que este produto está em conformidade com os requisitos essenciais e outras condições relevantes da regulamentação Europeia 1999/5/EC.

(SE) CE-FÖRSÄKRAN

Härmed försäkrar Sitecom Europe BV att denna produkt uppfyller de nödvändiga kraven och andra relevanta villkor EU-direktivet 1999/5/EC.

(DK) OVERENSSTEMMELSESERKLÆRING

Sitecom Europe BV bekræfter hermed, at dette produkt er i overensstemmelse med væsentlige krav og andre betingelser i henhold til Rådets direktiv 1999/5/EC.

(NO) CE-OVERENSSTEMMELSE

Sitecom Europe BV erklærer herved at dette produktet er i overensstemmelse med de avgjørende kravene og andre relevante vilkår i den europeiske forskriften 1999/5/EC.

(FI) CE-HYVÄKSYNTÄ

Täten Sitecom Europe BV ilmoittaa, että tämä tuote on yhdenmukainen direktiivin 1999/5/EC olennaisten vaatimusten ja muiden asiaankuuluvien sopimusehtojen kanssa.

(RU) СООТВЕТСТВИЕ ТРЕБОВАНИЯМ CE

Настоящим компания Sitecom Europe BV заявляет, что ее продукция соответствует основным требованиям и условиям Европейской Директивы 1999/5/EC.

(PL) CERTYFIKAT ZGODNOŚCI CE

Sitecom Europe BV niniejszym oświadcza, że ten produkt spełnia wszelkie niezbędne wymogi, a także inne istotne warunki dyrektywy europejskiej 1999/5/WE.

(GR) ΣΥΜΜΟΡΦΩΣΗ ΜΕ CE

Η Sitecom Europe BV δηλώνει, διά του παρόντος, ότι αυτό το προϊόν συμμορφώνεται με τις ουσιώδεις απαιτήσεις και τους λοιπούς όρους του ευρωπαϊκού κανονισμού 1999/5/EC.

CE !

FOR USE IN:

NL BE LU FR
ES CH PT UK
DE AT SE DK
IT NO SF IE

1 KEY FEATURES

Features	Advantages
Incredible Data Rate up to 300Mbps*	Heavy data payloads such as MPEG video streaming
IEEE 802.11n Compliant and backwards compatible with 802.11b/g	Fully Interoperable with IEEE 802.11b / IEEE802.11g compliant devices with legacy protection
Support 802.1x authenticator, 802.11i (WPA/WPA2, AES)	Provide mutual authentication (Client and dynamic encryption keys to enhance security
Easy to use web-based GUI	Graphical User Interface for network configuration and management purposes.
WPS Button	Easily connect your clients with just the push of a button.

** Theoretical wireless signal rate based on IEEE standard of 802.11b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate. All specifications are subject to change without notice.*

2 PACKAGE CONTENTS

Open the package carefully, and make sure that none of the items listed below are missing. Do not discard the packing materials, in case of return; the unit must be shipped back in its original package.

1. The WLX-2002 Wall Mount Access Point N300
2. A Quick Install Guide
3. A CD (User's Manual)
4. A Warranty card
5. An UTP cable

3 CAUTIONS

This device's design and manufacturer has your safety in mind. In order to safely and effectively use this device, please read the following before usage.

3.1 Usage Cautions

The user should not modify this device. The environmental temperature should be within +5 ~ +35 degrees Celsius.

3.2 Power

The device's power voltage is AC 230v. When plugging in the device, make sure it cannot get damaged or be subject to pressure. To reduce the risk of electric shock, unplug the device first before cleaning it. Never connect the device to the power in a humid or dusty area.

3.3 Repair

If the device has a problem, you should take it to an appointed repair center and let the specialists do the repair. Never repair the device yourself, you might damage the device or endanger yourself.

3.4 Disposing of the device

When you dispose of the device, be sure to dispose of it appropriately. Some countries may regulate disposal of an electrical device, please consult with your local authority.

3.5 Others

When using this device, please do not let it come into contact with water or other liquids. If water is accidentally spilled on the device, please use a dry cloth to absorb the spillage. Electronic products are vulnerable, when using please avoid shaking or hitting the device, and do not press the buttons too hard.

- Do not let the device come into contact with water or other liquid.
- Do not disassemble, repair or change the design of the device, any damage done will not be included in the repair policy.
- Avoid hitting the device with a hard object, avoid shaking the device and stay away from magnetic fields.
- If during electrostatic discharge or a strong electromagnetic field the device will malfunction, unplug the power cable. The product will return to normal performance the next time it is powered on.

4 PRODUCT LAYOUT

	Description
Network Port	You can use this port to connect to a wired modem or router to add wireless functionality.
OPS Button	You can use this button to connect using OPS. **OPS Button functions:** Press 0-5 seconds: WPS registrar Press 15+ seconds: reset to factory defaults.

LED Description

From top to bottom:

LED	Color	Description
Signal	Orange	No Function.
WLAN	Blue	Lights up in Blue when WLAN is enabled. Blinks on traffic.
Power	Orange	Lights up when powered ON. Blinks on TEST/RESET.
OPS	White	Blinks when OPS mode is on.
LAN	Green	Lights up when a LAN cable is connected.

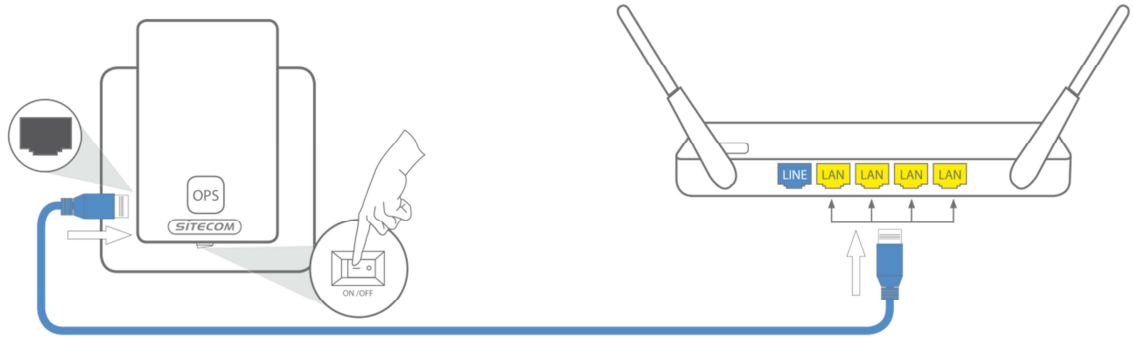
5 NETWORK + SYSTEM REQUIREMENTS

To begin using the WLX-2002, make sure you meet the following as minimum requirements:

- PC/Notebook.
- 1 Free Ethernet port.
- WiFi card/USB dongle (802.11 b/g/n) – optional.
- PC with a Web-Browser (Internet Explorer, Safari, Firefox, Opera)
- Ethernet compatible CAT5 cables.
- Router or Access Point

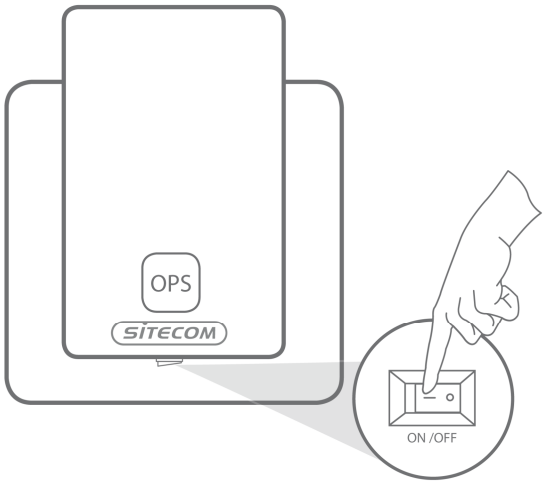
6 WLX-2002 PLACEMENT

You can place the WLX-2002 directly in a wall socket. For optimal performance, place your Access Point in a location that is away from any potential source of interference, such as a metal wall or microwave oven. This location must be within a good signal range from your existing router or access point, preferably above 50% signal strength.



8 BRINGING UP THE WLX-2002

You can plug the WLX-2002 directly into a wall outlet. Switch the device on with the power switch located on the bottom of the device. The WLX-2002 automatically enters the self-test phase. During self-test phase, the Power LED will be lit continuously to indicate that this product is in normal operation.



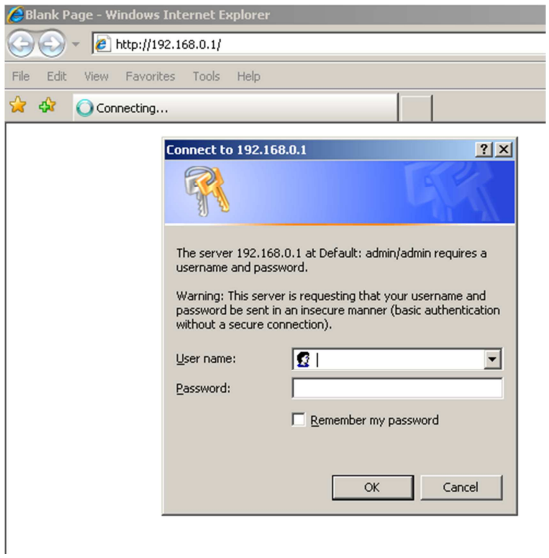
9 INITIAL SETUP WLX-2002

To configure the WLX-2002 connect to the device wirelessly as described in the Quick installation guide. Once the connection has been established follow the next steps to manually configure your access point.

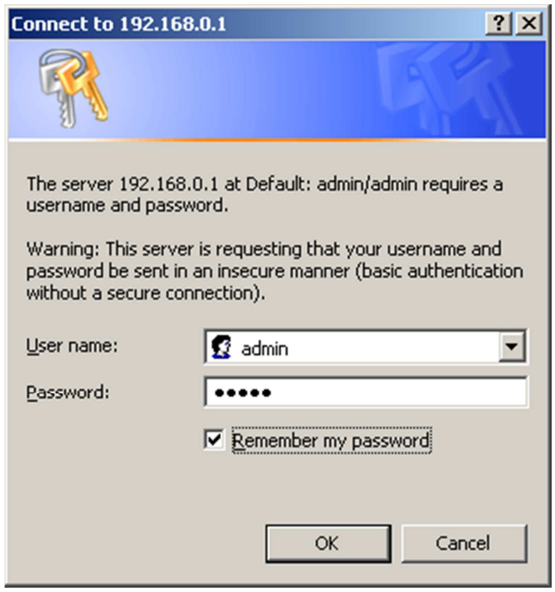
LOGIN procedure

1. OPEN your browser (e.g. Internet Explorer).

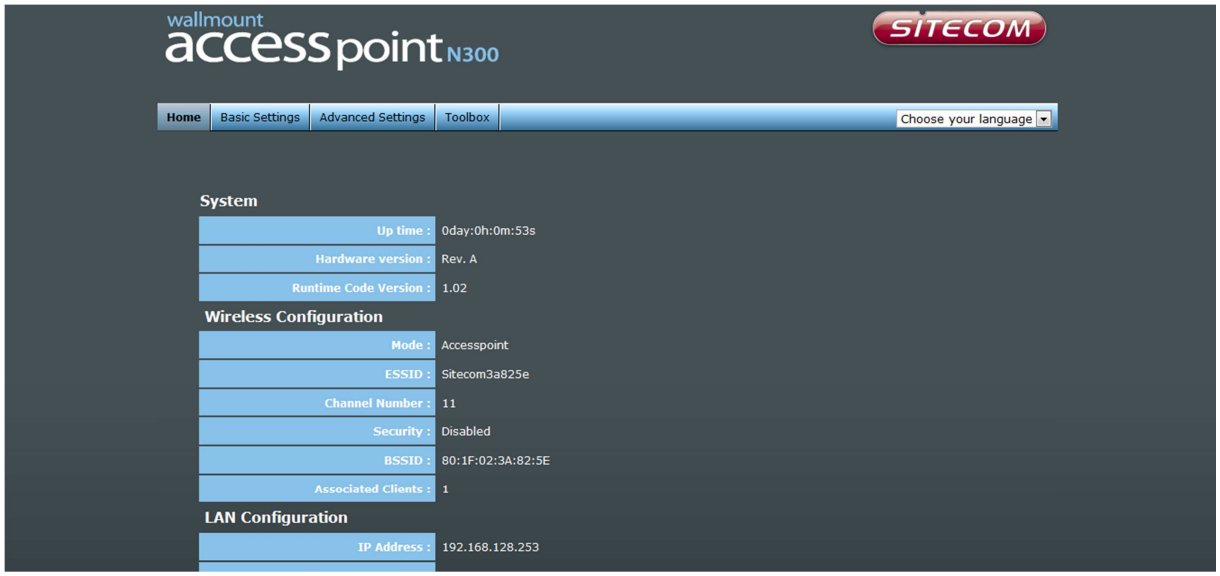
2. Type 'wlx2002.setup' in the address bar and press [Enter]


Blank Page - Windows Internet Explorer
http://192.168.0.1/
File Edit View Favorites Tools Help
Connecting...
Connect to 192.168.0.1
The server 192.168.0.1 at Default: admin/admin requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
Password:
Remember my password
OK
Cancel

3. Type user name and password (default username is '**admin**', the password can be found on the back of the Access Point).

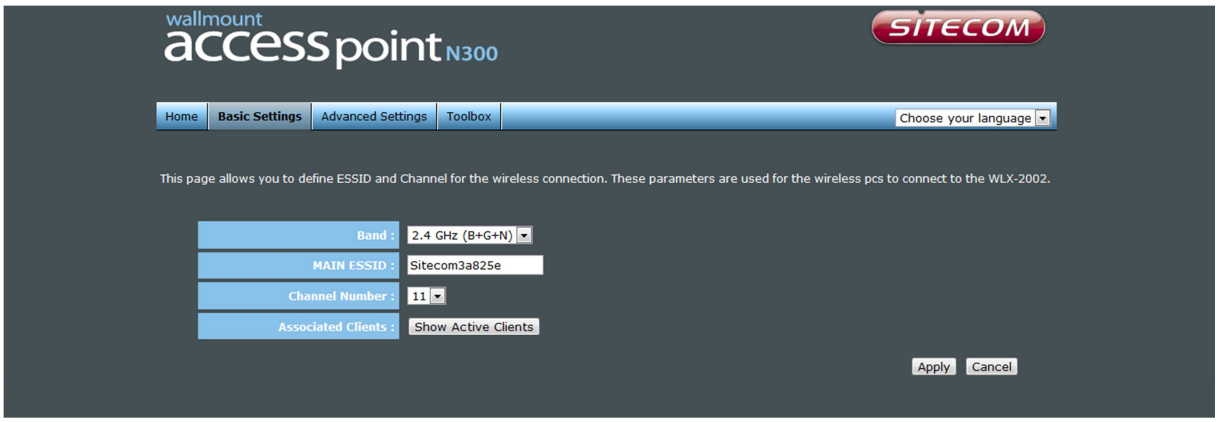

Connect to 192.168.0.1
The server 192.168.0.1 at Default: admin/admin requires a username and password.
Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).
User name:
admin
Password:
Remember my password
OK
Cancel

4. Click OK.
5. You will see the home page of the WLX-2002.



The System status section allows you to monitor the current status of your device, the UP time, hardware information, serial number as well as firmware version information is displayed here.

11 BASIC SETTINGS

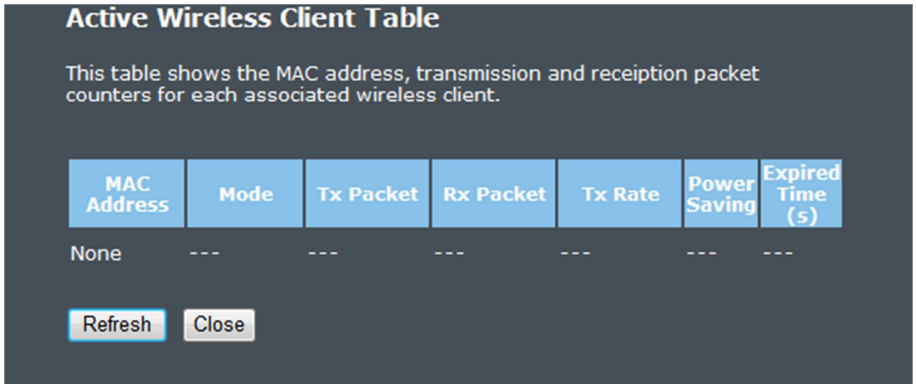


Band Please select the wireless band you wish to use. By selecting a different band setting, you'll be able to allow or deny the wireless clients on a certain band.

MAIN ESSID Please input the ESSID (the name used to identify this wireless access point) here. You can input up to 32 alphanumerical characters. PLEASE NOTE THAT THE ESSID IS CASE SENSITIVE.

Channel Number Please select a channel number you wish to use. The channel number must be same as the wireless access point you wish to connect.

Associated Clients Click 'Show Active Clients' button and a new popup window will appear which contains the information about all wireless clients connected to this access point.



You can click the 'Refresh' button in the popup window to keep the information up-to-date

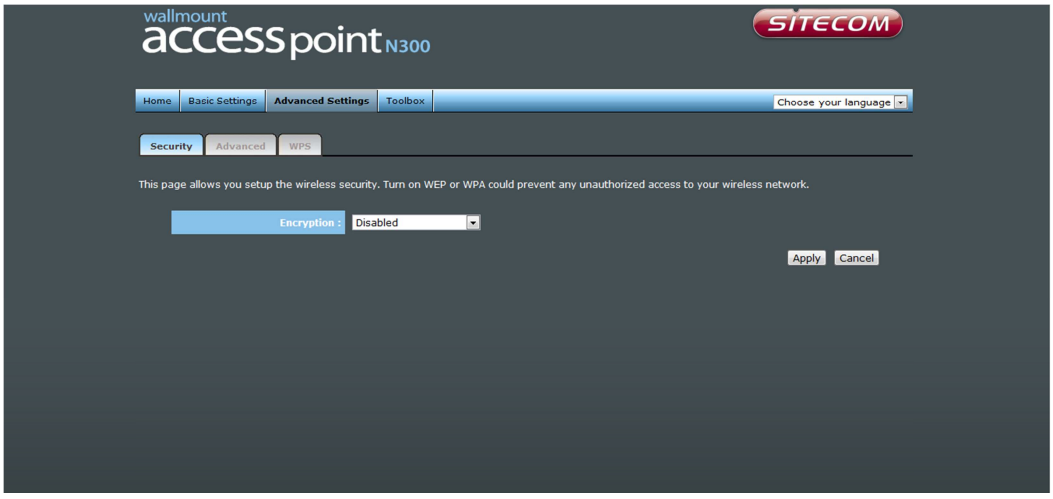
12 ADVANCED SETTINGS

Security

This device provides many types of wireless security (wireless data encryption). When you use data encryption, data transferred by radio signals in the air will become unreadable for those people who don't know the correct encryption key (encryption password).

There are four types of security level you can select: Disable (no security - data encryption disabled), WEP, WPA Pre-shared Key, and WPA Radius. Please refer to the following sections for detailed instructions.

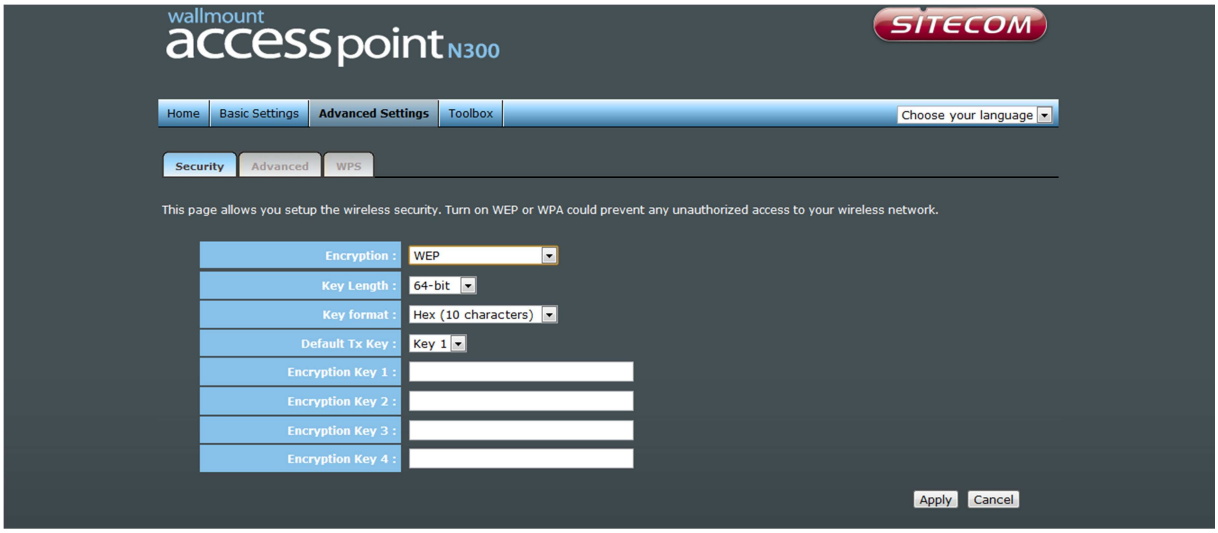
Disabled



When you select 'Disabled', wireless encryption for the network is disabled. This is not recommended.

Click <Apply> at the bottom of the screen to save the above configuration. You can now configure other sections by choosing Continue, or choose Apply to apply the settings and reboot the device.

WEP



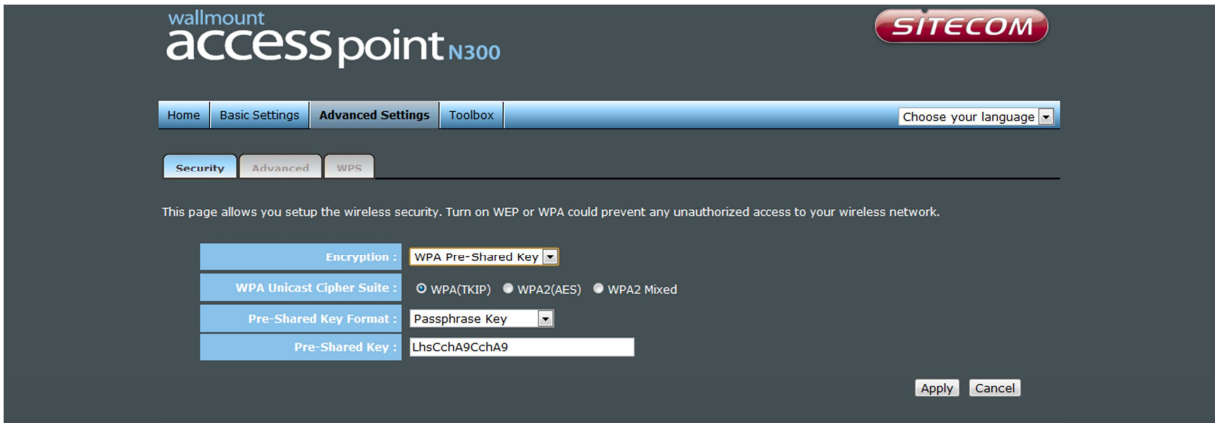
Key Length You can select the WEP key length for encryption, 64-bit or 128-bit. The larger the key will be the higher level of security is used, but the throughput will be lower.

Key Format You may select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.

Key1-Key4 The WEP keys are used to encrypt data transmitted in the wireless network. Use the following rules to setup a WEP key on the device.64-bit WEP: input 10-digits Hex values (in the "A-F", "a-f" and "0-9" range) or5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digitHex values (in the "A-F", "a-f" and "0-9" range) or 13-digit ASCII characters as the encryption keys.

Click <Apply> at the bottom of the screen to save the above configuration. You can now configure other sections by choosing Continue, or choose Apply to apply the settings and reboot the device.

WPA



WPA Unicast Cipher Suite — Available options are: WPA (TKIP), WPA2 (AES), and WPA2 Mixed. You can select one of them, but you have to make sure your wireless client supports the cipher you selected.

Pre-shared Key Format — Please select the format of pre-shared key here, available options are 'Passphrase' (8 to 63 alphanumerical characters) and 'Hex (64 hexadecimal characters – 0 to 9 and a to f).

Pre-shared Key — Please input pre-shared key according to the key format you selected here. For security reason, don't use simple words.

Advanced

This tab allows you to set the advanced wireless options. The options included are Channel Bandwidth, Fragment Threshold, RTS Threshold, Beacon Interval, and Preamble Type. You should not change these parameters unless you know what effect the changes will have on the router.

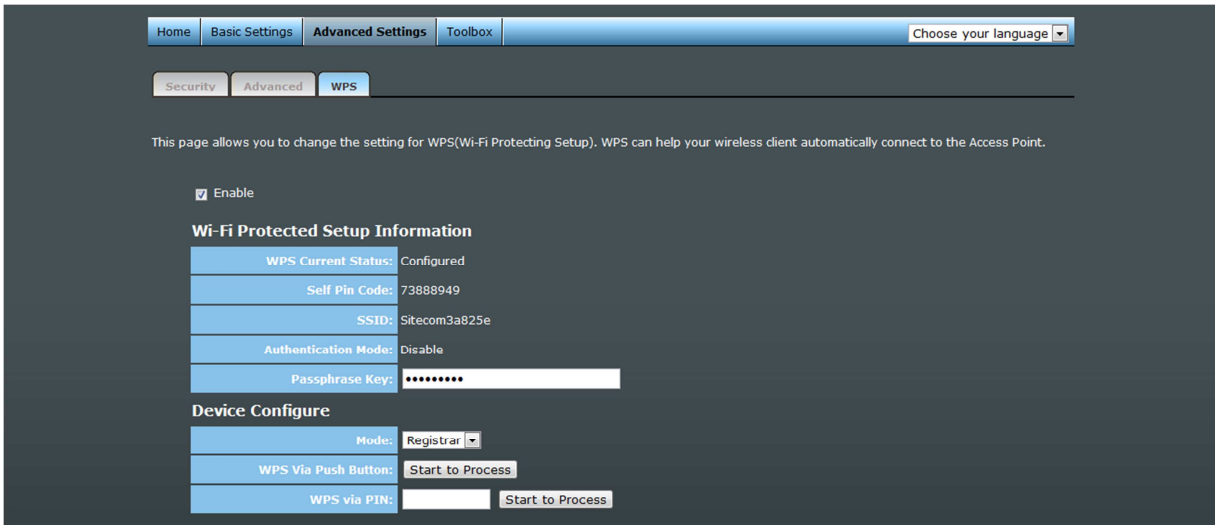
Security
Advanced
WPS
These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your WLX-2002.
Fragment Threshold: 2346 (256-2346)
RTS Threshold: 2347 (0-2347)
Beacon Interval: 100 (20-1000 ms)
DTIM Period: 3 (1-10)
Data rate: Auto
N Data rate: Auto
Channel Bandwidth: Auto 20/40 MHZ 20 MHZ
Preamble Type: Short Preamble Long Preamble
Broadcast ESSID: Enable Disable
CTS Protection: Auto Always None
Tx Power: 100 %
Apply
Cancel

Fragment Threshold	Set the Fragment threshold of wireless radio. The default value is 2346.
RTS Threshold	Set the RTS threshold of wireless radio. The default value is 2347.
Beacon Interval	Set the beacon interval of wireless radio. The default value is 100.
DTIM Period	Set the DTIM period of wireless radio. The default value is 3.
Data Rate	Set the wireless data transfer rate to a certain value. Since most wireless devices will negotiate with each other and pick a proper data transfer rate automatically, it's not necessary to change this value unless you know what will happen after modification.
N Data Rate	Set the data rate of 802.11 N clients, available options are MCS 0 to MCS 15. It's safe to set this option to 'Auto' and it's not necessary to change this value unless you know what will happen after modification.
Channel Width	Select wireless channel width (bandwidth taken by wireless signals of this access point). It's suggested to select 'Auto 20/40MHz'. Do not change to '20 MHz' unless you know what it is.
Preamble Type	Set the type of preamble of wireless radio. The default setting is 'Short Preamble'.
Broadcast ESSID	Decide if the wireless access point will broadcast its own ESSID or not. You can hide the ESSID of your wireless access point (set the option to 'Disable'), so only people who know the ESSID of your wireless access point can get connected.
WMM	WMM (Wi-Fi Multimedia) technology, which can improve the performance of certain network applications, like audio/video streaming, network telephony (VoIP), and others. When you enable WMM, the access point will define the priority of

	different kinds of data, to give higher priority to applications which require instant response. Therefore you can improve the performance of such network applications.
CTS Protect	Enabling this setting will reduce the chance of radio signal collisions between 802.11b and 802.11g wireless access points. It's recommended to set this option to 'Auto'.
TX Power	You can set the output power of wireless radio. Unless you're using this wireless access point in a really big space, you may not have to set output power to 100%. This will enhance security (malicious / unknown users on a distance will not be able to reach your wireless access point).

WPS

Wi-Fi Protected Setup (WPS) is the simplest way to establish a connection between the wireless clients and the wireless router. You don't have to select the encryption mode and fill in a long encryption passphrase every time when you try to setup a wireless connection. You only need to press a button on both wireless client and wireless router, and WPS will do the rest for you.



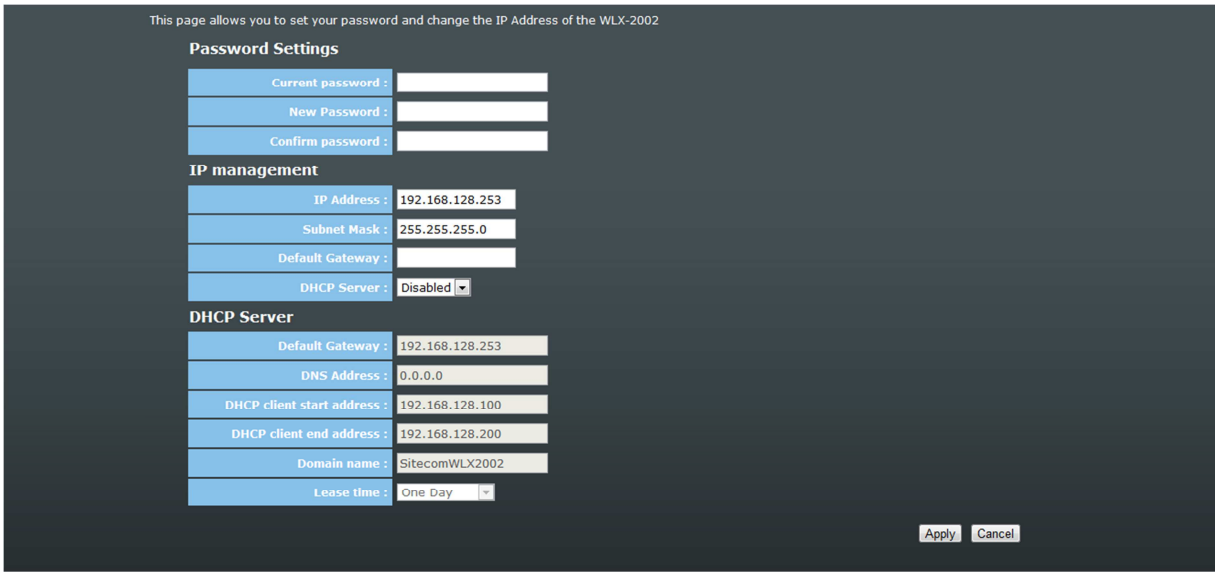
Check the box to enable the WPS function and uncheck it to disable the WPS function.

WPS Current Status	If the wireless security (encryption) function of this wireless router is properly set, you'll see a 'Configured' message here. Otherwise, you'll see 'UnConfigured'.
Self Pin Code	This is the WPS PIN code of the wireless router. You may need this information when connecting to other WPS-enabled wireless devices.
SSID	This is the network broadcast name (SSID) of the router.
Authentication Mode	It shows the active authentication mode for the wireless connection.
Passphrase Key	It shows the passphrase key that is randomly generated by the wireless router during the WPS process. You may need this information when using a device which doesn't support WPS.
Mode	In Client mode the device is set to connect to your existing network. In Registrar mode the device is set to connect to your clients.
WPS via Push Button	Press the button to start the WPS process. The device will wait for the WPS request from the wireless devices within 2 minutes.
WPS via PIN	You can fill-in the PIN code of the wireless device and press the button to start the WPS process. The router will wait for the WPS request from the wireless device within 2 minutes.

13 TOOLBOX SETTINGS

System

This device provides some control functions including password, IP address management, and DHCP server function. Please go to Toolbox, and open the 'System' tab, to access these functions. Below are detailed descriptions of every control function.


This page allows you to set your password and change the IP Address of the WLX-2002
Password Settings
Current password :
New Password :
Confirm password :
IP management
IP Address : 192.168.128.253
Subnet Mask : 255.255.255.0
Default Gateway :
DHCP Server : Disabled
DHCP Server
Default Gateway : 192.168.128.253
DNS Address : 0.0.0.0
DHCP client start address : 192.168.128.100
DHCP client end address : 192.168.128.200
Domain name : SitecomWLX2002
Lease time : One Day
Apply
Cancel

Password Settings You can change the password used to enter the web configuration menu of this device. Please input the current password in the 'Current Password' field, then input a new password in both the 'New Password' and the 'Re-Enter Password' field. After you finish, please go to the bottom of the page and click 'Apply'.

IP Management You can change the IP address of this device, so it can become a part of your local network. Please remember this address or you will not be able to connect the configuration menu of device. The default IP address is: 192.168.128.253 / Subnet Mask 255.255.255.0.

DHCP Server If you want to activate the DHCP server function of this device, please select 'Enabled' in the 'DHCP Server' option, and see the next Section for detailed instructions. If you don't want to use the DHCP server function of this device, or there's another DHCP server on the network this device connects to, please select 'Disable'. After you finish, please go to the bottom of this page and click 'Apply'.

DHCP Server

This device is capable to act as a DHCP server for your network.

Default Gateway Please input the IP address of default gateway of your network here.

DNS Address Please input the IP address of domain name server (DNS) here.

DHCP Client Start Address Please input the start IP address of the IP range.

DHCP Client End Address	Please input the end IP address of the IP range.
Domain Name	If you wish, you can also optionally input the domain name for your network. This is optional.
Lease Time	Please choose a lease time (the duration that every computer can keep a specific IP address) of every IP address assigned by this access point from dropdown menu.

After you finish, please click 'Apply'.

Backup

You can back up all configurations of this device to a file, so you can make several copies of access point configuration for security reasons.

wallmount
access point N300
SITECOM
Home
Basic Settings
Advanced Settings
Toolbox
Choose your language
System
Back-up
Upgrade
Reset
Use "Backup" to save the WLX-2002 current configuration to a file named "config.bin". You can then use "Restore" to upload the saved configuration to the Access Point. Use "Restore to Factory Default" to force the Access Point to perform a System Reset and restore the original factory settings
Backup Settings :
Save
Restore Settings :
Choose File
No file chosen
Upload
Restore to Factory default :
Reset

Backup Settings	Press 'Save...' button, and you'll be prompted to download the configuration as a file. The default filename is 'config.bin'. You can save it as another filename for different versions, and keep it in a safe place.
Restore Settings	Press 'Browse…' to pick a previously-saved configuration file from your computer, and then click 'Upload' to transfer the configuration file to the device. After the configuration is uploaded, the configuration will be replaced by the file you just uploaded.
Restore to Factory Default	Click this button to remove all settings you made and restore the configuration of this device back to factory default settings.

Upgrade

If there is a new firmware available, you can upload the firmware to the device to get extra functions or problem fixes.

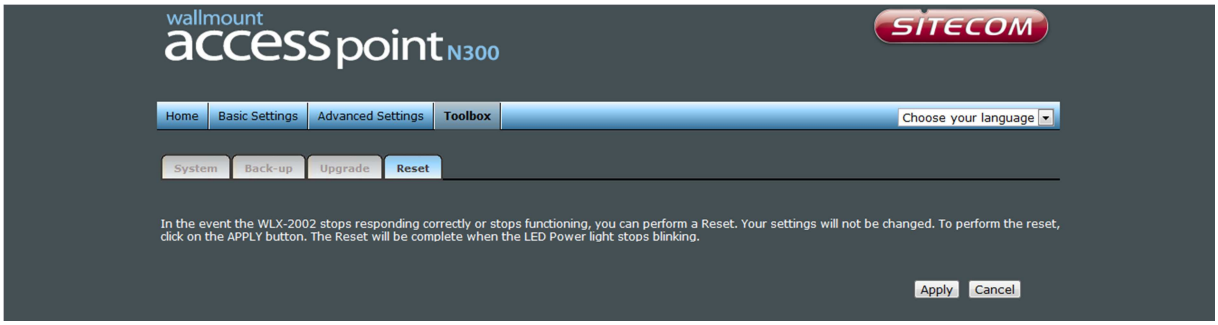
Click the 'Browse' button. You'll be prompted to provide the filename of the firmware upgrade file. Please download the latest firmware file from our website, and use it to upgrade your device.

After a firmware file is selected, click the 'Apply' button, and the device will start the firmware upgrade procedure automatically. The procedure may take several minutes, so please be patient.

NOTE: Never interrupt the upgrade procedure by closing the web browser or physically disconnecting your computer from the device.

Reset

When you think the device is not working properly, you can use this function to restart the device; this may help and solve the problem.


wallmount
access point N300
SITECOM
Home
Basic Settings
Advanced Settings
Toolbox
Choose your language
System
Back-up
Upgrade
Reset
In the event the WLX-2002 stops responding correctly or stops functioning, you can perform a Reset. Your settings will not be changed. To perform the reset, click on the APPLY button. The Reset will be complete when the LED Power light stops blinking.
Apply
Cancel

This function is useful when the device is far from you or unreachable. However, if the device is not responding, you may have to switch it off by unplugging the power plug and plugging it back again after 10 seconds.

Parts of the firmware of the WLX-2002/WLX-2003 Wireless dualband Broadband router are subject to the GNU general public license.

Appendix A: Licensing Information

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Specifically, the following part of this product is subject to the GNU GPL:

#	Package name	Source
1	busybox-1.11	http://busybox.net/
2	wireless_tools.25	http://www.hpl.hp.com/personal/Jean_Tourrilhes/Linux/Tools.html
3	bridge-utils	http://bridge.sourceforge.net
4	dnrd-2.20.3	http://dnrd.sourceforge.net/
5	boa-0.94.14rc21	http://www.boa.org
6	Linux-2.4.18	http://www.kernel.org

Availability of source code

Sitecom Europe BV has made available the full source code of the GPL licensed software, including any scripts to control the compilation and installation of the object code in the driver section of this product on the Sitecom website.

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